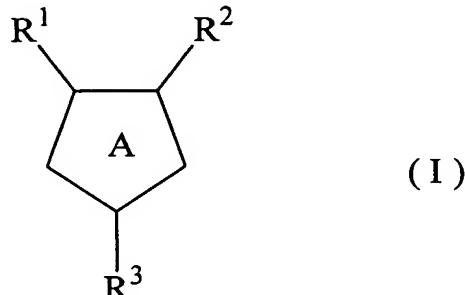
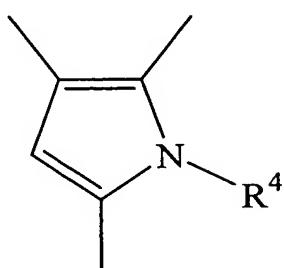
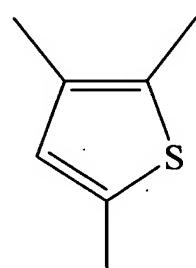
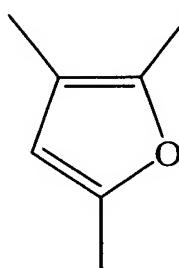
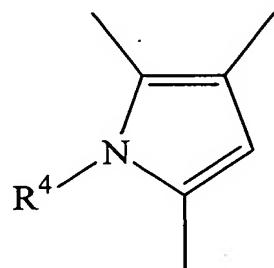
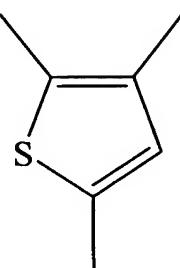
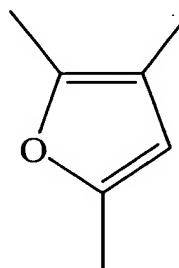


Claims:

1. A large conductance calcium-activated K channel opener comprising a 5-membered heterocyclic compound of the
 5 formula (I):



wherein ring A is a ring represented by any one of the formulae:



10 R^1 is a substituted or unsubstituted aryl, a substituted or unsubstituted heterocycle or a substituted or unsubstituted heterocycle-substituted carbonyl;
 R^2 is hydrogen, a halogen, carboxy, a substituted or unsubstituted amino, a substituted or unsubstituted alkyl, an alkoxy carbonyl, a substituted or unsubstituted alkenyl or a cycloalkyl;
 15 R^3 is a substituted or unsubstituted aryl, a substi-

tuted or unsubstituted heterocycle or a substituted or unsubstituted alkyl; and
R⁴ is hydrogen or a substituted or unsubstituted alkyl;

5 or a pharmaceutically acceptable salt thereof as an active ingredient.

2. The large conductance calcium-activated K channel opener according to Claim 1,

10 wherein R¹ is (1) an aryl which may be substituted by a substituent(s) selected from the group consisting of nitro, amino, hydroxy, carbamoyl, cyano, carboxy, trifluoromethyl, alkoxycarbonyl, halogen, alkyl, hydroxyalkyl, alkoxy, alkoxyalkoxy, mono- or di-alkylamino, mono- or di-alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkylsulfonylamino and phenylalkoxy, (2) a heterocycle which may be substituted by a substituent(s) selected from the group consisting of nitro, hydroxy, formyl, carbamoyl, cyano, amino, carboxy, alkoxycarbonyl, halogen, alkyl, hydroxyalkyl, alkoxy, mono- or di-alkylamino, mono- or di-alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl and mono- or di-alkylsulfamoyl, or (3) a heterocycle-substituted carbonyl which may be substituted by a substituent(s) selected from the group consisting of nitro, hydroxy, carbamoyl, cyano, carboxy, alkoxycarbonyl, halogen, alkyl, hydroxyalkyl, alkoxy, alkanoyl, mono- or di-alkylamino, mono- or di-alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl and mono- or di-alkylsulfamoyl;

20

25

30 R² is (1) hydrogen, (2) halogen, (3) carboxy, (4) amino which may be substituted by a substituent(s) selected from the group consisting of formyl, alkyl, alkanoyl, alkylsulfonyl and alkoxycarbonyl, (5) an alkyl which may be substituted by a substituent(s) selected from the group

35 consisting of halogen, hydroxy, cyano, carboxy, carbamoyl,

amino, aminosulfonyl, amidinothio, mono- or di-alkylamino, alkanoylamino, alkylsulfonylamino, hydroxyamino, mono- or di-alkylcarbamoyl, trifluoromethyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylsulfonylamino, hydroxy-
5 carbamoyl, hydroxycarbamoyl which is substituted by one or two alkyl(s), alkylsulfonylcarbamoyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkoxycarbonyl, heterocycle, hetero-
cycle-substituted carbamoyl, heterocycle-substituted alkyl-
carbamoyl and heterocycle-substituted sulfonylcarbamoyl,
10 (6) alkoxycarbonyl, (7) alkenyl which may be substituted by carboxy or alkoxycarbonyl or (8) cycloalkyl;

R³ is (1) an aryl which may be substituted by a substituent(s) selected from the group consisting of cyano, nitro, amino, halogen, trifluoromethyl, carboxy, hydroxy, carbamoyl, mono- or di-alkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxycarbonyl, alkanoyl, alkanoyloxy, alkanoyloxyalkyl, sulfo, alkylthio, alkylthioalkyl, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl and alkylsulfinyl, (2) a heterocycle which may be substituted by a substituent(s) selected from the group consisting of oxo, cyano, nitro, amino, halogen, carboxy, hydroxy, formyl, carbamoyl, mono- or di-alkylamino, N-alkyl-N-cycloalkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxycarbonyl, alkanoyl, sulfo, alkylthio, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkylsulfinyl and heterocycle or (3) an alkyl which may be substituted by a substituent(s) selected from the group consisting of hydroxy, cyano, carboxy, carbamoyl, amino, mono- or di-alkylamino, alkanoylamino, alkylsulfonylamino, hydroxyamino, mono- or di-alkylcarbamoyl, trifluoromethyl, halogen, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkoxycarbonyl and heterocycle; and

R⁴ is (1) hydrogen or (2) an alkyl which may be

substituted by mono- or di-alkylamino.

3. The large conductance calcium-activated K channel opener according to Claim 1 or 2,

5 wherein R¹ is a substituted or unsubstituted aryl or a substituted or unsubstituted heterocycle;

 R² is carboxy, a substituted or unsubstituted amino, a substituted or unsubstituted alkyl, alkoxy carbonyl or a substituted or unsubstituted alkenyl; and

10 R³ is a substituted or unsubstituted aryl or a substituted or unsubstituted heterocycle.

4. The large conductance calcium-activated K channel opener according to Claim 1,

15 wherein R¹ is (1) aryl which may be substituted by one or two halogen(s) or (2) a heterocycle which may be substituted by halogen or alkyl;

20 R² is alkyl which may be substituted by a substituent(s) selected from the group consisting of carboxy, carbamoyl, mono- or di-alkylcarbamoyl, hydroxycarbamoyl, hydroxycarbamoyl which is substituted by one or two alkyl(s), alkoxy carbonyl, alkylsulfonylcarbamoyl and heterocycle;

25 R³ is (1) a heterocycle which may be substituted by one or two substituent(s) selected from the group consisting of amino, halogen, alkyl, alkoxy, mono- or di-alkyl-amino and alkylthio or (2) aryl which may be substituted by a substituent(s) selected from the group consisting of amino, halogen, alkyl, alkylthio, alkoxy and mono- or di-30 alkylamino; and

 R⁴ is hydrogen or alkyl.

5. The large conductance calcium-activated K channel opener according to Claim 1,

35 wherein R¹ is (1) aryl which may be substituted by one or two halogen(s), (2) thienyl which may be substituted

by halogen or (3) pyridyl which may be substituted by alkyl;

5 R² is (1) carboxyalkyl, (2) carbamoylalkyl, (3) mono- or di-alkylcarbamoylalkyl, (4) alkoxy carbonylalkyl, (5) alkylsulfonylcarbamoylalkyl, or (6) tetrazolylalkyl;

R³ is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen, alkylthio, alkyl, alkoxy and dialkylamino, (3) pyridyl 10 which may be substituted by a substituent(s) selected from the group consisting of alkyl, alkoxy and dialkylamino, (4) pyrimidinyl which may be substituted by alkoxy, alkyl, dialkylamino or alkylthio, (5) thieryl which may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl, (7) 15 benzofuryl, (8) dihydrobenzofuryl or (9) indolyl which may be substituted by alkyl; and

R⁴ is hydrogen or alkyl.

20 6. The large conductance calcium-activated K channel opener according to Claim 1,

wherein R¹ is (1) aryl which may be substituted by one or two halogen(s) or (2) thieryl which may be substituted by halogen;

25 R² is (1) carboxyalkyl, (2) carbamoylalkyl, (3) mono- or di-alkylcarbamoylalkyl, or (4) alkoxy carbonylalkyl,

R³ is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen, alkylthio, alkyl, alkoxy and dialkylamino, (3) pyridyl 30 which may be substituted by a substituent(s) selected from the group consisting of alkyl, alkoxy and dialkylamino, (4) pyrimidinyl which may be substituted by alkoxy or dialkylamino, (5) thieryl which may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl, (7) benzofuryl, (8) 35 dihydrobenzofuryl or (9) indolyl which may be substituted by alkyl; and

R^4 is hydrogen or alkyl.

7. The large conductance calcium-activated K channel opener according to Claim 1,

5 wherein R^1 is (1) aryl which may be substituted by one or two halogen(s) or (2) thiienyl which may be substituted by halogen;

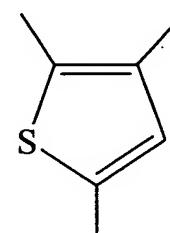
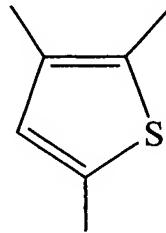
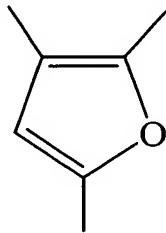
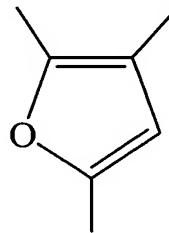
R^2 is (1) carboxyalkyl or (2) alkoxycarbonylalkyl;

10 R^3 is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen, alkylthio, alkoxy and dialkylamino, (3) pyridyl which may be substituted by alkoxy or dialkylamino, (4) pyrimidinyl which may be substituted by dialkylamino, (5) thiienyl which 15 may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl or (7) indolyl which may be substituted by alkyl; and

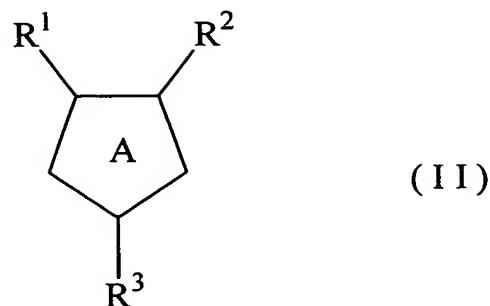
15 R^4 is hydrogen or alkyl.

20 8. The large conductance calcium-activated K channel opener according to any one of Claims 1 to 6, wherein R^2 is carboxymethyl or alkoxycarbonylmethyl.

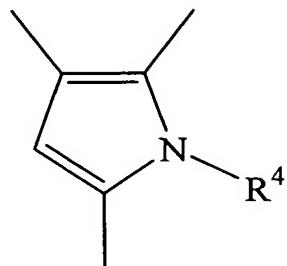
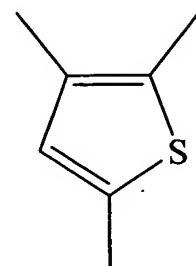
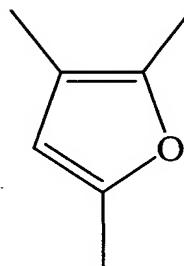
25 9. The large conductance calcium-activated K channel opener according to any one of Claims 1 to 8, wherein the Ring A is a ring represented by either one of the formulae:



10. A 5-membered heterocyclic compound of the formula (II):



wherein ring A is a ring represented by any one of the formulae:



5 R^1 is a substituted or unsubstituted aryl, a substituted or unsubstituted heterocycle or a substituted or unsubstituted heterocycle-substituted carbonyl;
 R^2 is a substituted alkyl;
 R^3 is a substituted or unsubstituted aryl, a substituted or unsubstituted heterocycle or a substituted or unsubstituted alkyl; and
 R^4 is hydrogen or a substituted or unsubstituted alkyl;
 provided that when R^1 and R^3 are phenyl, R^2 is not
 10 15 carboxymethyl or ethoxycarbonylmethyl,
 or a pharmaceutically acceptable salt thereof.

11. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 10,
 20 wherein R^1 is a substituted or unsubstituted heterocycle, a substituted or unsubstituted heterocycle-substituted carbonyl, or an aryl substituted by two halogens.

12. The 5-membered heterocyclic compound or a pharmaceuti-

cally acceptable salt thereof according to Claim 10 or 11,

wherein R¹ is (1) an aryl which may be substituted by a substituent(s) selected from the group consisting of nitro, amino, hydroxy, carbamoyl, cyano, carboxy, tri-
5 fluoromethyl, alkoxy carbonyl, halogen, alkyl, hydroxy alkyl, alkoxy, alkoxy alkoxy, mono- or di-alkylamino, mono- or di-
alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkylsulfonylamino and phenylalkoxy, (2) a heterocycle which may be substi-
10 tuted by a substituent(s) selected from the group consist-
ing of nitro, hydroxy, formyl, carbamoyl, cyano, amino, carboxy, alkoxy carbonyl, halogen, alkyl, hydroxy alkyl, alkoxy, mono- or di-alkylamino, mono- or di-alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl and
15 mono- or di-alkylsulfamoyl, or (3) a heterocycle-substi-
tuted carbonyl which may be substituted by a substituent(s) selected from the group consisting of nitro, hydroxy, carbamoyl, cyano, carboxy, alkoxy carbonyl, halogen, alkyl, hydroxy alkyl, alkoxy, alkanoyl, mono- or di-alkylamino,
20 mono- or di-alkanoylamino, alkylthio, alkylsulfonyl, alkylsulfinyl, sulfamoyl and mono- or di-alkylsulfamoyl;

R² is an alkyl which may be substituted by a substituent(s) selected from the group consisting of halogen, hydroxy, cyano, carboxy, carbamoyl, amino, amino-
25 sulfonyl, amidinothio, mono- or di-alkylamino, alkanoyl-
amino, alkylsulfonylamino, hydroxyamino, mono- or di-
alkylcarbamoyl, trifluoromethyl, alkoxy, alkylthio, alkyl-
sulfinyl, alkylsulfonyl, alkylsulfonylamino, hydroxy-
carbamoyl, hydroxycarbamoyl which is substituted by one or
30 two alkyl(s), alkylsulfonylcarbamoyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkoxy carbonyl, heterocycle, hetero-
cycle-substituted carbamoyl, heterocycle-substituted alkyl-
carbamoyl and heterocycle-substituted sulfonylcarbamoyl;

R³ is (1) an aryl which may be substituted by a substituent(s) selected from the group consisting of cyano, nitro, amino, halogen, trifluoromethyl, carboxy, hydroxy,

carbamoyl, mono- or di-alkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxycarbonyl, alkanoyl, alkanoyloxy, alkanoyloxyalkyl, sulfo, alkylthio, alkylthioalkyl, 5 alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl and alkylsulfinyl, (2) a heterocycle which may be substituted by a substituent(s) selected from the group consisting of oxo, cyano, nitro, amino, halogen, carboxy, hydroxy, formyl, carbamoyl, mono- or di-alkylamino, N-alkyl-N- 10 cycloalkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxycarbonyl, alkanoyl, sulfo, alkylthio, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkylsulfinyl and heterocycle or (3) an alkyl which may be 15 substituted by a substituent(s) selected from the group consisting of hydroxy, cyano, carboxy, carbamoyl, amino, mono- or di-alkylamino, alkanoylamino, alkylsulfonylamino, hydroxyamino, mono- or di-alkylcarbamoyl, trifluoromethyl, halogen, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, 20 sulfamoyl, mono- or di-alkylsulfamoyl, alkoxycarbonyl and heterocycle; and

R⁴ is (1) hydrogen or (2) an alkyl which may be substituted by mono- or di-alkylamino.

25 13. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 10 or 11, wherein R¹ is (1) an aryl which may be substituted by one or two halogen(s), or (2) a heterocycle which may be substituted by halogen or alkyl;

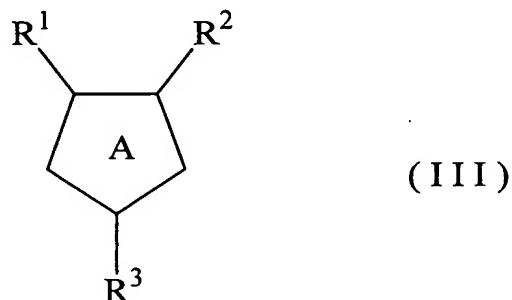
30 R² is an alkyl which may be substituted by a substituent(s) selected from the group consisting of carboxy, carbamoyl, mono- or di-alkylcarbamoyl, hydroxycarbamoyl, hydroxycarbamoyl which is substituted by one or two alkyl(s), alkoxycarbonyl, alkylsulfonylcarbamoyl and heterocycle; and

35 R³ is (1) a heterocycle which may be substituted by

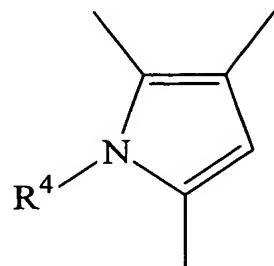
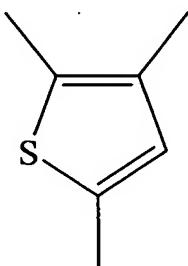
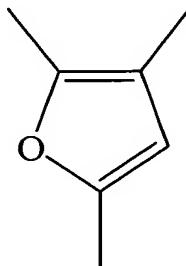
one or two substituent(s) selected from the group consisting of amino, halogen, alkyl, alkoxy, mono- or di-alkylamino and alkylthio, or (2) an aryl which may be substituted by a substituent(s) selected from the group consisting of amino, halogen, alkyl, alkylthio, alkoxy and mono- or di-alkylamino; and

5 R^4 is hydrogen or alkyl.

14. A 5-membered heterocyclic compound of the formula
10 (III):



wherein ring A is a ring represented by any one of the formulae:



15 R^1 is a substituted or unsubstituted thiienyl, or an aryl substituted by two halogens;
 R^2 is substituted alkyl;
 R^3 is a substituted or unsubstituted aryl, a substituted or unsubstituted heterocycle or a substituted or unsubstituted alkyl; and
20 R^4 is hydrogen or a substituted or unsubstituted alkyl;
 R^4 is hydrogen or a substituted or unsubstituted alkyl;
provided that when R^1 is 2-thienyl, R^3 is not 2-thienyl;

or a pharmaceutically acceptable salt thereof.

15. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 14,

5 wherein R² is an alkyl which may be substituted by a substituent(s) selected from the group consisting of halogen, hydroxy, cyano, carboxy, carbamoyl, amino, amino-sulfonyl, amidinothio, mono- or di-alkylamino, alkanoyl-amino, alkylsulfonylamino, hydroxyamino, mono- or di-alkyl-10 carbamoyl, trifluoromethyl, alkoxy, alkylthio, alkyl-sulfinyl, alkylsulfonyl, alkylsulfonylamino, hydroxycarbamoyl, hydroxycarbamoyl which is substituted by one or two alkyl(s), alkylsulfonylcarbamoyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkoxy carbonyl, heterocycle, heterocycle-15 substituted carbamoyl, heterocycle-substituted alkylcarbamoyl and heterocycle-substituted sulfonylcarbamoyl;

20 R³ is (1) an aryl which may be substituted by a substituent(s) selected from the group consisting of cyano, nitro, amino, halogen, trifluoromethyl, carboxy, hydroxy, carbamoyl, mono- or di-alkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxy carbonyl, alkanoyl, alkanoyl-oxy, alkanoyloxyalkyl, sulfo, alkylthio, alkylthioalkyl, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl and alkylsulfinyl, (2) a heterocycle which may be substituted by a substituent(s) selected from the group consisting of oxo, cyano, nitro, amino, halogen, carboxy, hydroxy, formyl, carbamoyl, mono- or di-alkylamino, N-alkyl-N-cycloalkylamino, aminoalkyl, mono- or di-alkylaminoalkyl, 25 mono- or di-alkylcarbamoyl, alkyl, hydroxyalkyl, alkoxy, alkoxyalkyl, alkoxy carbonyl, alkanoyl, sulfo, alkylthio, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkylsulfinyl and heterocycle or (3) an alkyl which may be substituted by a substituent(s) selected from the group 30 consisting of hydroxy, cyano, carboxy, carbamoyl, amino, 35

mono- or di-alkylamino, alkanoylamino, alkylsulfonylamino, hydroxyamino, mono- or di-alkylcarbamoyl, trifluoromethyl, halogen, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfamoyl, mono- or di-alkylsulfamoyl, alkoxycarbonyl and heterocycle; and

5 R⁴ is (1) hydrogen or (2) an alkyl which may be substituted by mono- or di-alkylamino.

10 16. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 14,

15 wherein R² is an alkyl which may be substituted by a substituent(s) selected from the group consisting of carboxy, carbamoyl, mono- or di-alkylcarbamoyl, hydroxycarbamoyl, hydroxycarbamoyl which is substituted by one or two alkyl(s), alkoxycarbonyl, alkylsulfonylcarbamoyl and heterocycle;

20 R³ is (1) a heterocycle which may be substituted by one or two substituent(s) selected from the group consisting of amino, halogen, alkyl, alkoxy, mono- or di-alkylamino and alkylthio, or (2) an aryl which may be substituted by a substituent(s) selected from the group consisting of amino, halogen, alkyl, alkylthio, alkoxy and mono- or di-alkylamino; and

25 R⁴ is hydrogen or alkyl.

17. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 10 or 14,

30 wherein R¹ is thienyl which may be substituted by halogen(s);

35 R² is (1) carboxyalkyl, (2) carbamoylalkyl, (3) mono- or di-alkylcarbamoylalkyl, (4) alkoxycarbonylalkyl, (5) alkylsulfonylcarbamoylalkyl or (6) tetrazolylalkyl;

35 R³ is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen,

alkylthio, alkyl, alkoxy and dialkylamino, (3) pyridyl which may be substituted by a substituent(s) selected from the group consisting of alkyl, alkoxy and dialkylamino, (4) pyrimidinyl which may be substituted by alkoxy, alkyl,

5 dialkylamino or alkylthio, (5) thienyl which may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl, (7) benzofuryl, (8) dihydrobenzofuryl or (9) indolyl which may be substituted by alkyl; and

R⁴ is hydrogen or alkyl.

10

18. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 17,

wherein R² is (1) carboxyalkyl, (2) carbamoylalkyl, (3) mono- or di-alkylcarbamoylalkyl or (4) alkoxy carbonyl-15 alkyl; and

R³ is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen, alkylthio, alkyl, alkoxy and dialkylamino, (3) pyridyl

20 which may be substituted by a substituent(s) selected from the group consisting of alkyl, alkoxy and dialkylamino, (4) pyrimidinyl which may be substituted by alkoxy or dialkylamino, (5) thienyl which may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl, (7) benzofuryl, (8) 25 dihydrobenzofuryl or (9) indolyl which may be substituted by alkyl.

19. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to Claim 17,

30 wherein R² is carboxyalkyl or alkoxy carbonylalkyl; and

R³ is (1) benzothienyl which may be substituted by halogen, (2) phenyl which may be substituted by a substituent(s) selected from the group consisting of halogen,

35 alkylthio, alkoxy and dialkylamino, (3) pyridyl which may be substituted by a substituent(s) selected from the group

consisting of alkyl, alkoxy and dialkylamino, (4) pyrimidinyl which may be substituted by dialkylamino, (5) thieryl which may be substituted by one or two alkyl(s), (6) thieno[3,2-b]pyridyl or (7) indolyl which may be substituted by alkyl.

20. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to any one of Claims 17 to 19, wherein R² is carboxymethyl or alkoxy-10 carbonylmethyl.

21. The 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to any one of Claims 17 to 20, wherein ring A is furan or thiophen.

15 22. A compound selected from the group consisting of the compounds described in the examples and preferable examples in the specification, or a pharmaceutically acceptable salt thereof.

20 23. A medicine comprising the 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to any one of Claims 10 to 22.

25 24. A large conductance calcium-activated K channel opener comprising the 5-membered heterocyclic compound or a pharmaceutically acceptable salt thereof according to any one of Claims 10 to 22 as an active ingredient.

30 25. A large conductance calcium-activated K channel opener according to any one of Claims 1 to 9 and 24, which is for the prophylaxis and/or treatment of pollakiuria or urinary incontinence.